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Copy 2 of 5

29 June 1967

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MEMORANDUM FOR: [REDACTED]

SUBJECT : Comments on Costing Satellite Photography for Mapping Purposes

REFERENCE : Memorandum from DIA [REDACTED] to NRO [REDACTED] and CIA [REDACTED] dated 8 June 1967, subject: Costs of KH-4 Satellite Photography for MC and G Purposes

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1. Reference memorandum is a good stab at the costing task. Of the different approaches suggested, Alternative 1 seems the most suitable. I can think up none better. I feel that the alternative should also (but only) include the R & D cost of modifications, [REDACTED]

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2. It seems to me that the costing exercise should be omitted from the Annex C. The same material needs to be covered later on in Annex I, and is much more effectively treated there. Both R & D costs and per-square-mile costs, for instance, are better treated centrally. Such a rearrangement would also help to break out what seem to be three separate sub-tasks in costing satellite photography for mapping purposes: a) MC and G share of R & D inputs, system by system; b) MC and G share of running costs, system by system; and c) costs per square mile of satellite mapping photography versus cost per square mile of conventionally obtained mapping photography. Annex C can only serve this information up in pieces.

3. With regard to costs per square mile, I wonder if this discussion isn't marginal to the exercise without coverage of other pertinent factors -- the wide variations in logistical costs of conventional systems, problems of political inaccessibility, and the disparity in time requirements. All this would seem to me to need discussion before cost figures are trotted out, which is perhaps another reason for eschewing cost figures until Annex I is reached.

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4. When the costing exercise is done, its meaning will be blurred by the fact that some part of the NC and G share of the reconnaissance costs also represents the pro rata cost to mapping of its intelligence-support function, and theoretically is chargeable right back to Intelligence. I don't know what this part might be, or whether a useful estimate of it can be made. Maybe only the idea need be stated.



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WV

8 February 1967

MEMORANDUM FOR: W. A. T.

SUBJECT: Preliminary Questions Offered
by [redacted]

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1. The attached draft of 29 December 1966 was drawn up by [redacted] as a very preliminary set of questions which he discussed with [redacted], leaving a copy with them. He also gave a copy to [redacted] who drafted a revision of his own, dated 31 January 1967 (also attached).

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2. Nothing is firmed up, and [redacted] asked me to donate any ideas I might have.

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3. I borrowed his copies of the above to have xeroxes made.

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[redacted]
O. E. G.

DRAFT
29 Dec 66

1. a. Photographic input to mapping and charting.
2. What is its cost in money and its impact on other priority targets?
3. What part of mapping and charting is for intelligence purposes and what other needs does the production of maps fulfill?
4. Is it feasible to split out the budget for mapping and charting so that part is identified with intelligence and part with the other areas which it supports? If feasible, does it serve a useful purpose to so split the program?
5. Should the full cost of mapping and charting to include photography and research and development be included in mapping and charting so that the true cost of this program can be identified?
6. Description of the management process for mapping and charting.
 - a. Establishment of requirements.
 - (1) JSOP-JCS - unified and specified commands.
 - (2) Other (CIA-DIA)
 - b. Setting of priorities.
 - (1) By whom?
 - (2) How does intelligence requirements get weighed?
7. Can the intelligence input to mapping and charting be distinguished from other inputs? What are the sources of intelligence input to mapping and charting?

8. What have the mapping and charting budgets been over the past three years?
What is the five year projection?
9. Is there a completion date for the world mapping program?
10. What is the relative cost of photography by satellite versus cost by aircraft? (Per square mile)
11. Are we tied to governmental commitments to provide maps to other countries? To what extent?
12. Maps of areas of world where satisfactory photography is available.
13. Maps of areas of world which have been programmed for mapping showing areas in which maps are completed and proximate schedule for completion of remainder.
14. Necessity for a complete data base of photography suitable for mapping in support of military commitments or contingency plans.

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[Redacted]
DDI/CGS

31 January 1967

D R A F T

Photographic Input to Mapping and Charting

(Background information and specific data
required to answer the questions.)

1. Definitions of unique terminology.
2. Pertinent directives -- management structure.
3. Budgets -- MC&G and photo collection.
4. History of MC&G program -- since beginning of photo input to program.
5. History of USIB actions.
6. Requirements -- coverage and accuracy; source, validation, priorities.
7. Record of photo inputs -- percent of film by mission (all systems),
MC&G coverage attempted and achieved, unique coverage achieved.
Weather factors. System operational factors.
8. MC&G programs using photo inputs -- product consumers, purposes,
quantities, classifications.
9. Status of collection/production -- data bank balance.
10. R&D for photo program -- historical and future.
11. Overt photo collection inputs -- historical and future.

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12 January 1967

MEMORANDUM FOR: WAT

SUBJECT: Conversation with [] on
11 January 1967

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1. [] showed to me a memorandum of instruction which he had received within the last day or two from Mr. Bross (the memorandum was actually drafted by [] at Mr. Bross's request).

2. The memorandum indicated that the DCI was very concerned regarding the cost of obtaining satellite photography and the appropriateness of and extent to which such photography should be scheduled against the requirements of the MC&G community.

3. The first question to investigate is whether or not mapping, charting, and geodesy should legitimately be included within the intelligence field (and budget). The second question is whether satellite photography is in fact necessary to accomplish the objectives of the mapping and charting programs. The third question relates to timing and coverage in the programming of photographic collection for mapping and charting purposes. The fourth question to investigate is the extent, if any, to which more advanced satellite systems [] would need to be used in satisfying MC&G requirements (this really relates to the need for updating the data bank and could, to some extent, relate to the cost of minor alterations in equipment to better satisfy MC&G accuracy requirements).

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4. Although I don't recall the specific wording, it is clear that [] expects to establish a small interagency team, undoubtedly with representation from DIAMC as well as from other agencies, to carry on the investigation of these various points. He recognizes that sensible and logical answers could be given almost off

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GROUP 1
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the top of the head but that they would vary with the interests of the individuals questioned. He suspects that the working group will be faced with the tedious process of developing cost and other quantitative data, as well as argumentations that can be agreed upon and will hold water in the final analysis.

[REDACTED]
OEG

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